

Network Centric Transponders for Airspace Integration of UAVs, Phase I

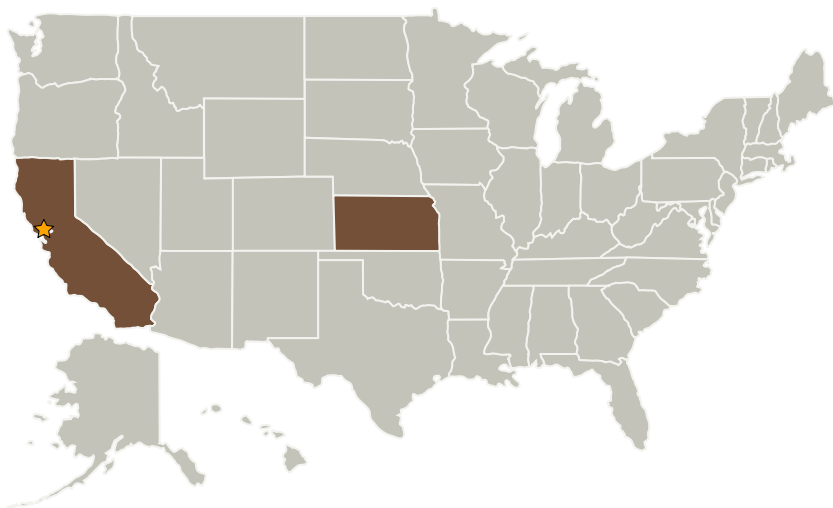
Completed Technology Project (2005 - 2005)



Project Introduction

The need for a small, lightweight, remotely-operable transponder for UAVs is identified. This would allow integration of UAVs into the national airspace while providing an equivalent level of safety during operations as manned aircraft. A network-centric, integrated transponder and altitude encoder is proposed to meet this need. Phase I includes device design and bench top testing of system components. Phase II includes design refinement, prototype fabrication, and comprehensive flight testing of the device in KalScott's UAV.

Primary U.S. Work Locations and Key Partners



Organizations Performing Work	Role	Type	Location
★Ames Research Center(ARC)	Lead Organization	NASA Center	Moffett Field, California
Jacobs Engineering Group, Inc.	Supporting Organization	Industry	Dallas, Texas

Primary U.S. Work Locations

California	Kansas
------------	--------



Network Centric Transponders for Airspace Integration of UAVs, Phase I

Table of Contents

Project Introduction	1
Primary U.S. Work Locations and Key Partners	1
Organizational Responsibility	1
Project Management	2
Technology Areas	2

Organizational Responsibility

Responsible Mission Directorate:

Space Technology Mission Directorate (STMD)

Lead Center / Facility:

Ames Research Center (ARC)

Responsible Program:

Small Business Innovation Research/Small Business Tech Transfer

Network Centric Transponders for Airspace Integration of UAVs, Phase I

Completed Technology Project (2005 - 2005)



Project Management

Program Director:

Jason L Kessler

Program Manager:

Carlos Torrez

Principal Investigators:

Tom Sherwood

David Schleicher

Technology Areas

Primary:

- TX16 Air Traffic Management and Range Tracking Systems
 - └ TX16.3 Traffic Management Concepts